Shaoxian Song

List of Publications by Citations

215 papers	4,406 citations	35 h-index	53 g-index
218 ext. papers	6,084 ext. citations	5.8 avg, IF	6.55 L-index

#	Paper	IF	Citations
215	Methylene blue removal from water using the hydrogel beads of poly(vinyl alcohol)-sodium alginate-chitosan-montmorillonite. *Carbohydrate Polymers*, **2018**, 198, 518-528	10.3	192
214	Geopolymerization reaction, microstructure and simulation of metakaolin-based geopolymers at extended Si/Al ratios. *Cement and Concrete Composites*, **2017**, 79, 45-52	8.6	169
213	Removal of methylene blue from water with montmorillonite nanosheets/chitosan hydrogels as adsorbent. *Applied Surface Science*, **2018**, 448, 203-211	6.7	150
212	Self-assembled gels of Fe-chitosan/montmorillonite nanosheets: Dye degradation by the synergistic effect of adsorption and photo-Fenton reaction. *Chemical Engineering Journal*, **2020**, 379, 122322	14.7	136
211	Two-Dimensional Molybdenum Disulfide as a Superb Adsorbent for Removing Hg2+ from Water. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7410-7419	8.3	124
210	Synthesis of Fluorinated Graphene/CoAl-Layered Double Hydroxide Composites as Electrode Materials for Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 5204-5212	9.5	98
209	Comparison of Pb(II) adsorption onto graphene oxide prepared from natural graphites: Diagramming the Pb(II) adsorption sites. *Applied Surface Science*, **2016**, 364, 620-627	6.7	90
208	AFM study on the adsorption of Hg on natural molybdenum disulfide in aqueous solutions. *Physical Chemistry Chemical Physics*, **2017**, 19, 3837-3844	3.6	85
207	Oxidation of Molybdenum Disulfide Sheet in Water under in Situ Atomic Force Microscopy Observation. *Journal of Physical Chemistry C*, **2017**, 121, 9938-9943	3.8	81
206	A novel core-shell structural montmorillonite nanosheets/stearic acid composite PCM for great promotion of thermal energy storage properties. *Solar Energy Materials and Solar Cells*, **2019**, 192, 57-64	6.4	69
205	Combination formation in the reinforcement of metakaolin geopolymers with quartz sand. *Cement and Concrete Composites*, **2017**, 80, 115-122	8.6	64
204	Efficient Ofloxacin degradation with Co(II)-doped MoS2 nano-flowers as PMS activator under visible-light irradiation. *Chemical Engineering Journal*, **2020**, 401, 125978	14.7	59
203	Adsorption of As(V) inside the pores of porous hematite in water. *Journal of Hazardous Materials*, **2016**, 307, 312-7	12.8	57
202	Effects of oxidation on the defect of reduced graphene oxides in graphene preparation. *Journal of Colloid and Interface Science*, **2015**, 450, 68-73	9.3	56
201	Two-dimensional molybdenum disulfide as adsorbent for high-efficient Pb(II) removal from water. *Applied Materials Today*, **2017**, 9, 220-228	6.6	49
200	High-performance two-dimensional montmorillonite supported-poly(acrylamide-co-acrylic acid) hydrogel for dye removal. *Environmental Pollution*, **2020**, 257, 113574	9.3	49
199	Removal of heavy metals and dyes by clay-based adsorbents: From natural clays to 1D and 2D nano-composites. *Chemical Engineering Journal*, **2021**, 420, 127574	14.7	49

198	Reexamining calcination of kaolinite for the synthesis of metakaolin geopolymers - roles of dehydroxylation and recrystallization. *Journal of Non-Crystalline Solids*, **2017**, 460, 74-80	3.9	47
197	Pb(II) removal from water using porous hydrogel of chitosan-2D montmorillonite. *International Journal of Biological Macromolecules*, **2019**, 128, 85-93	7.9	46
196	Design of 3D-network montmorillonite nanosheet/stearic acid shape-stabilized phase change materials for solar energy storage. *Solar Energy Materials and Solar Cells*, **2020**, 204, 110233	6.4	46
195	Defect-rich molybdenum disulfide as electrode for enhanced capacitive deionization from water. *Desalination*, **2018**, 446, 21-30	10.3	46
194	Electrophoretic mobility study for heterocoagulation of montmorillonite with fluorite in aqueous solutions. *Powder Technology*, **2017**, 309, 61-67	5.2	41
193	Controllable incorporation of oxygen in MoS for efficient adsorption of Hg in aqueous solutions. *Journal of Hazardous Materials*, **2020**, 384, 121382	12.8	41
192	Enhanced removal of methyl orange on exfoliated montmorillonite/chitosan gel in presence of methylene blue. *Chemosphere*, **2020**, 238, 124693	8.4	40
191	Eco-friendly geopolymer prepared from solid wastes: A critical review. *Chemosphere*, **2021**, 267, 128900	8.4	40
190	Effect of Cu2+ and Fe3+ on the depression of molybdenite in flotation. *Minerals Engineering*, **2019**, 130, 101-109	4.9	39
189	A novel method for determining the thickness of hydration shells on nanosheets: A case of montmorillonite in water. *Powder Technology*, **2017**, 306, 74-79	5.2	38
188	Viscosities of Binary and Ternary Mixtures of Water, Alcohol, Acetone, and Hexane. *Journal of Dispersion Science and Technology*, **2008**, 29, 1367-1372	1.5	38
187	Preparation of Montmorillonite Nanosheets through Freezing/Thawing and Ultrasonic Exfoliation. *Langmuir*, **2019**, 35, 2368-2374	4	37
186	Enhancement of cadmium adsorption by EPS-montmorillonite composites. *Environmental Pollution*, **2019**, 252, 1509-1518	9.3	37
185	Removal of Cd (II) from water by using nano-scale molybdenum disulphide sheets as adsorbents. *Journal of Molecular Liquids*, **2018**, 263, 526-533	6	37
184	A Robust Molecular Catalyst Generated In Situ for Photo- and Electrochemical Water Oxidation. *ChemSusChem*, **2017**, 10, 862-875	8.3	36
183	Synthesis of chitosan cross-linked 3D network-structured hydrogel for methylene blue removal. *International Journal of Biological Macromolecules*, **2019**, 141, 98-107	7.9	35
182	In Situ Reduction of Au(I) for Efficient Recovery of Gold from Thiosulfate Solution by the 3D MoS2/Chitosan Aerogel. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 3673-3680	8.3	35
181	Adsorption of heavy metals on molybdenum disulfide in water: A critical review. *Journal of Molecular Liquids*, **2019**, 292, 111390	6	35

180	DESALINATION BY CAPACITIVE DEIONIZATION WITH CARBON-BASED MATERIALS AS ELECTRODE: A REVIEW. *Surface Review and Letters*, **2013**, 20, 1330003	1.1	34
179	Thermal Modification of the Molybdenum Disulfide Surface for Tremendous Improvement of Hg2+ Adsorption from Aqueous Solution. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9065-9073	8.3	34
178	Electrosorption of fluoride on TiO2-loaded activated carbon in water. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 502, 66-73	5.1	33
177	Recent advances in structural engineering of molybdenum disulfide for electrocatalytic hydrogen evolution reaction. *Chemical Engineering Journal*, **2021**, 405, 127013	14.7	33
176	Effects of curing temperature on the compressive strength and microstructure of copper tailing-based geopolymers. *Chemosphere*, **2020**, 253, 126754	8.4	32
175	Combined Electrosorption and Chemisorption of As(V) in Water by Using Electrode. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 6532-6538	8.3	31
174	Mussel-inspired Fe3O4@Polydopamine(PDA)-MoS2 core–shell nanosphere as a promising adsorbent for removal of Pb2+ from water. *Journal of Molecular Liquids*, **2019**, 282, 598-605	6	31
173	Competition of Hg2+ adsorption and surface oxidation on MoS2 surface as affected by sulfur vacancy defects. *Applied Surface Science*, **2019**, 483, 521-528	6.7	31
172	Characterisation of reduced graphene oxides prepared from natural flaky, lump and amorphous graphites. *Materials Research Bulletin*, **2016**, 78, 119-127	5.1	30
171	Correlation of montmorillonite exfoliation with interlayer cations in the preparation of two-dimensional nanosheets. *RSC Advances*, **2017**, 7, 41471-41478	3.7	30
170	Selective flotation of fluorite from barite using trisodium phosphate as a depressant. *Minerals Engineering*, **2019**, 134, 390-393	4.9	29
169	Adsorption of As(III) on porous hematite synthesized from goethite concentrate. *Chemosphere*, **2017**, 169, 188-193	8.4	28
168	Effect of anions species on copper removal from wastewater by using mechanically activated calcium carbonate. *Chemosphere*, **2019**, 230, 127-135	8.4	27
167	MoS2@sponge with double layer structure for high-efficiency solar desalination. *Desalination*, **2020**, 481, 114359	10.3	27
166	Molecular dynamics simulations of hydration shell on montmorillonite (001) in water. *Surface and Interface Analysis*, **2016**, 48, 976-980	1.5	27
165	Adsorption of AsV in aqueous solutions on porous hematite prepared by thermal modification of a siderite - goethite concentrate. *Environmental Chemistry*, **2012**, 9, 512	3.2	27
164	Simultaneous Sorption of Arsenate and Fluoride on Calcined MgFeLa Hydrotalcite-Like Compound from Water. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16287-16297	8.3	27
163	High temperature enhances lipid accumulation in nitrogen-deprived Scenedesmus obtusus XJ-15. *Journal of Applied Phycology*, **2016**, 28, 831-837	3.2	26

162	Immobilization of mercury using high-phosphate culture-modified microalgae. *Environmental Pollution*, **2019**, 254, 112966	9.3	26
161	Recovery of [Au(CN) 2] ‐ from gold cyanidation with graphene oxide as adsorbent. *Separation and Purification Technology*, **2017**, 186, 63-69	8.3	25
160	Design of MtNS/SA microencapsulated phase change materials for enhancement of thermal energy storage performances: Effect of shell thickness. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109935	6.4	25
159	Facile Preparation of Three-Dimensional MoS Aerogels for Highly Efficient Solar Desalination. *ACS Applied Materials & Interfaces*, **2020**, 12, 32673-32680	9.5	25
158	Preparation of ion-imprinted montmorillonite nanosheets/chitosan gel beads for selective recovery of Cu(II) from wastewater. *Chemosphere*, **2020**, 252, 126560	8.4	24
157	Algal biomass from the stable growth phase as a potential biosorbent for Pb(II) removal from water. *RSC Advances*, **2017**, 7, 34600-34608	3.7	24
156	Consolidation of mine tailings through geopolymerization at ambient temperature. *Journal of the American Ceramic Society*, **2019**, 102, 2451-2461	3.8	24
155	Reduction mechanism of Au metal ions into Au nanoparticles on molybdenum disulfide. *Nanoscale*, **2019**, 11, 9488-9497	7.7	23
154	Cell surface characterization of some oleaginous green algae. *Journal of Applied Phycology*, **2016**, 28, 2323-2332	3.2	23
153	Adsorption of the complex ion Au(CN)2- onto sulfur-impregnated activated carbon in aqueous solutions. *Journal of Colloid and Interface Science*, **2010**, 349, 602-6	9.3	23
152	Preparation and characterization of self-assembly hydrogels with exfoliated montmorillonite nanosheets and chitosan. *Nanotechnology*, **2018**, 29, 025605	3.4	23
151	Fundamental Studies of SHMP in Reducing Negative Effects of Divalent Ions on Molybdenite Flotation. *Minerals (Basel, Switzerland)*, **2018**, 8, 404	2.4	23
150	Combined electrosorption and chemisorption of low concentration Pb(II) from aqueous solutions with molybdenum disulfide as electrode. *Applied Surface Science*, **2018**, 455, 258-266	6.7	23
149	Effective harvesting of microalgae by coagulation-flotation. *Royal Society Open Science*, **2017**, 4, 170867	3.3	22
148	Emerging Hexagonal MoC Nanosheet with (002) Facet Exposure and Cu Incorporation for Peroxymonosulfate Activation Toward Antibiotic Degradation. *ACS Applied Materials & Interfaces*, **2021**, 13, 14342-14354	9.5	22
147	Simultaneous removal of Hg2+, Pb2+ and Cd2+ from aqueous solutions on multifunctional MoS2. *Journal of Molecular Liquids*, **2019**, 296, 111987	6	21
146	Selection of microalgae for biodiesel production in a scalable outdoor photobioreactor in north China. *Bioresource Technology*, **2014**, 174, 274-80	11	21
145	Synthesis of unique-morphological hollow microspheres of MoS2@montmorillonite nanosheets for the enhancement of photocatalytic activity and cycle stability. *Journal of Materials Science and Technology*, **2020**, 41, 88-97	9.1	21

144	Hydrophilic MoS2/polydopamine (PDA) nanocomposites as the electrode for enhanced capacitive deionization. *Separation and Purification Technology*, **2020**, 236, 116298	8.3	21
143	Effects of aluminum on the expansion and microstructure of alkali-activated MSWI fly ash-based pastes. *Chemosphere*, **2020**, 240, 124986	8.4	21
142	Chemical forms of lead immobilization in alkali-activated binders based on mine tailings. *Cement and Concrete Composites*, **2018**, 92, 198-204	8.6	21
141	Geothermal clay-based geopolymer binders: Synthesis and microstructural characterization. *Applied Clay Science*, **2017**, 146, 223-229	5.2	20
140	EXFOLIATION AND CHARACTERIZATION OF LAYERED SILICATE MINERALS: A REVIEW. *Surface Review and Letters*, **2014**, 21, 1430001	1.1	20
139	Synthesis of carboxymethyl cellulose-chitosan-montmorillonite nanosheets composite hydrogel for dye effluent remediation. *International Journal of Biological Macromolecules*, **2020**, 165, 1-10	7.9	20
138	Molecular Dynamics Study of Crystalline Swelling of Montmorillonite as Affected by Interlayer Cation Hydration. *Jom*, **2018**, 70, 479-484	2.1	20
137	Reducing the Entrainment of Gangue Fines in Low Grade Microcrystalline Graphite Ore Flotation Using Multi-Stage Grinding-Flotation Process. *Minerals (Basel, Switzerland)*, **2017**, 7, 38	2.4	19
136	Effects of aggregates on the mechanical properties and microstructure of geothermal metakaolin-based geopolymers. *Results in Physics*, **2018**, 11, 267-273	3.7	19
135	Correlation of electrophoretic mobility with exfoliation of montmorillonite platelets in aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 525, 1-6	5.1	18
134	Adsorption of fluoride at the interface of water with calcined magnesium ferri lanthanum hydrotalcite-like compound. *RSC Advances*, **2017**, 7, 26104-26112	3.7	18
133	Self-assembly montmorillonite nanosheets supported hierarchical MoS2 as enhanced catalyst toward methyl orange degradation. *Materials Chemistry and Physics*, **2020**, 246, 122829	4.4	18
132	Effect of layer charges on exfoliation of montmorillonite in aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 548, 92-97	5.1	18
131	Immobilization forms of ZnO in the solidification/stabilization (S/S) of a zinc mine tailing through geopolymerization. *Journal of Materials Research and Technology*, **2019**, 8, 5728-5735	5.5	18
130	Correlation of exfoliation performance with interlayer cations of montmorillonite in the preparation of two-dimensional nanosheets. *Journal of the American Ceramic Society*, **2019**, 102, 3908-3922	3.8	18
129	Electrosorption of Pb(II) in water using graphene oxide-bearing nickel foam as the electrodes. *RSC Advances*, **2017**, 7, 23543-23549	3.7	17
128	Preparation and characterization of flowerlike Al-doped Ni(OH)2 for supercapacitor applications. *Chemical Physics*, **2019**, 521, 55-60	2.3	17
127	Adsorption toward Cu(II) and inhibitory effect on bacterial growth occurring on molybdenum disulfide-montmorillonite hydrogel surface. *Chemosphere*, **2020**, 248, 126025	8.4	17

126	Novel approach to control adsorbent aggregation: iron fixed bentonite-fly ash for Lead (Pb) and Cadmium (Cd) removal from aqueous media. *Frontiers of Environmental Science and Engineering*, **2018**, 12, 1	5.8	17
125	Preparation of monolayer muscovite through exfoliation of natural muscovite. *RSC Advances*, **2015**, 5, 52882-52887	3.7	16
124	Effects of Aluminum Dosage on Gel Formation and Heavy Metal Immobilization in Alkali-Activated Municipal Solid Waste Incineration Fly Ash. *Energy & Fuels*, **2020**, 34, 4727-4733	4.1	16
123	Microscale control of edge defect and oxidation on molybdenum disulfide through thermal treatment in air and nitrogen atmospheres. *Applied Surface Science*, **2018**, 462, 471-479	6.7	15
122	Molybdenum disulfide/montmorillonite composite as a highly efficient adsorbent for mercury removal from wastewater. *Applied Clay Science*, **2020**, 184, 105370	5.2	15
121	Degradation of fluoroquinolones in homogeneous and heterogeneous photo-Fenton processes: A review. *Chemosphere*, **2021**, 270, 129481	8.4	15
120	Three-dimensional montmorillonite/Ag nanowire aerogel supported stearic acid as composite phase change materials for superior solar-thermal energy harvesting and storage. *Composites Science and Technology*, **2022**, 217, 109121	8.6	14
119	Construction of MoS2 nano-heterojunction via ZnS doping for enhancing in-situ photocatalytic reduction of gold thiosulfate complex. *Chemical Engineering Journal*, **2020**, 394, 124866	14.7	14
118	Using van der Waals heterostructures based on two-dimensional InSeXS2 (X = Mo, W) as promising photocatalysts for hydrogen production. *Journal of Materials Chemistry C*, **2020**, 8, 12509-12515	7.1	14
117	Correlation of Montmorillonite Sheet Thickness and Flame Retardant Behavior of a Chitosan?Montmorillonite Nanosheet Membrane Assembled on Flexible Polyurethane Foam. *Polymers*, **2019**, 11,	4.5	14
116	Magnetic MoS2 nanosheets as recyclable solar-absorbers for high-performance solar steam generation. *Renewable Energy*, **2021**, 163, 146-153	8.1	14
115	Insight the effect of crystallinity of natural graphite on the electrochemical performance of reduced graphene oxide. *Results in Physics*, **2018**, 11, 131-137	3.7	14
114	The fundamental roles of monovalent and divalent cations with sulfates on molybdenite flotation in the absence of flotation reagents.. *RSC Advances*, **2018**, 8, 23364-23371	3.7	14
113	Co-influence of the pore size of adsorbents and the structure of adsorbates on adsorption of dyes. *Desalination and Water Treatment*, **2016**, 57, 14686-14695		13
112	Novel rapid room temperature synthesis of conjugated microporous polymer for metal-free photocatalytic degradation of fluoroquinolones. *Journal of Hazardous Materials*, **2020**, 398, 122928	12.8	13
111	Preparation of microscale zero-valent iron-fly ash-bentonite composite and evaluation of its adsorption performance of crystal violet and methylene blue dyes. *Environmental Science and Pollution Research*, **2017**, 24, 20050-20062	5.1	13
110	Synergistic effect in the reduction of Cr(VI) with Ag-MoS2 as photocatalyst. *Applied Materials Today*, **2020**, 18, 100453	6.6	13
109	The Influencing Mechanisms of Sodium Hexametaphosphate on Chalcopyrite Flotation in the Presence of MgCl2 and CaCl2. *Minerals (Basel, Switzerland)*, **2018**, 8, 150	2.4	12

108	The Influence of Common Chlorides on the Adsorption of SBX on Chalcopyrite Surface during Flotation Process. *Mineral Processing and Extractive Metallurgy Review*, **2019**, 40, 129-140	3.1	12
107	Air Dispersion and Bubble Characteristics in a Downflow Flotation Column. *Mineral Processing and Extractive Metallurgy Review*, **2019**, 40, 224-229	3.1	12
106	Multi-edged molybdenite achieved by thermal modification for enhancing Pb(II) adsorption in aqueous solutions. *Chemosphere*, **2020**, 251, 126369	8.4	11
105	Selective recovery of heavy metals from wastewater by mechanically activated calcium carbonate: Inspiration from nature. *Chemosphere*, **2020**, 246, 125842	8.4	11
104	Model-based assessment of estrogen removal by nitrifying activated sludge. *Chemosphere*, **2018**, 197, 430-437	8.4	11
103	STUDY ON DECOMPOSITION OF GOETHITE/SIDERITE IN THERMAL MODIFICATION THROUGH XRD, SEM AND TGA MEASUREMENTS. *Surface Review and Letters*, **2014**, 21, 1450019	1.1	11
102	Adsorption of Zn(II) on graphene oxide prepared from low-purity of amorphous graphite. *Surface and Interface Analysis*, **2017**, 49, 398-404	1.5	10
101	Regulation of coal flotation by the cations in the presence of clay. *Fuel*, **2020**, 271, 117590	7.1	10
100	Correlation of aspect ratio of montmorillonite nanosheets with the colloidal properties in aqueous solutions. *Results in Physics*, **2019**, 15, 102526	3.7	10
99	The Influence of Impurity Monovalent Cations Adsorption on Reconstructed Chalcopyrite (001)-S Surface in Leaching Process. *Minerals (Basel, Switzerland)*, **2016**, 6, 89	2.4	10
98	Removal of Pb(ii) and Cr(vi) from aqueous solutions using the prepared porous adsorbent-supported Fe/Ni nanoparticles.. *RSC Advances*, **2018**, 8, 32063-32072	3.7	10
97	Optimization of Supercritical CO2 Extraction of Essential Oil from Artemisia annua L. by Means of Response Surface Methodology. *Journal of Essential Oil-bearing Plants: JEOP*, **2017**, 20, 314-327	1.7	9
96	Effect of interlayer cations on exfoliating 2D montmorillonite nanosheets with high aspect ratio: From experiment to molecular calculation. *Ceramics International*, **2019**, 45, 17054-17063	5.1	9
95	Synergistic performance of a sub-nanoscopic cobalt and imidazole grafted porous organic polymer for CO2 fixation to cyclic carbonates under ambient pressure without a co-catalyst. *Journal of Materials Chemistry A*, **2020**, 8, 13916-13920	13	9
94	Increasing the Fine Flaky Graphite Recovery in Flotation via a Combined MultipleTreatments Technique of Middlings. *Minerals (Basel, Switzerland)*, **2017**, 7, 208	2.4	9
93	Piezo-Photocatalytic Reduction of Au(I) by Defect-Rich MoS2 Nanoflowers for Efficient Gold Recovery from a Thiosulfate Solution. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 589-598	8.3	9
92	As(V) removal from water using the La(III)- Montmorillonite hydrogel beads. *Reactive and Functional Polymers*, **2020**, 147, 104456	4.6	9
91	Salt coagulation or flocculation? In situ zeta potential study on ion correlation and slime coating with the presence of clay: A case of coal slurry aggregation. *Environmental Research*, **2020**, 189, 109875	7.9	9

90	Use of posnjakite containing sludge as catalyst for decoloring dye via photo-Fenton-like process. *Journal of Cleaner Production*, **2021**, 293, 126184	10.3	9
89	Three-dimensional reduced graphene oxide/montmorillonite nanosheet aerogels as electrode material for supercapacitor application. *Applied Clay Science*, **2021**, 206, 106022	5.2	9
88	Utilization of carbonate-based tailings to remove Pb(II) from wastewater through mechanical activation. *Science of the Total Environment*, **2020**, 698, 134270	10.2	9
87	Co-disposal of MSWI fly ash and spent caustic through alkaline-activation consolidation. *Cement and Concrete Composites*, **2021**, 116, 103888	8.6	9
86	A novel method for the quantitative determination of defects on graphene surfaces. *Journal of Colloid and Interface Science*, **2017**, 499, 62-66	9.3	8
85	Comparison of Arsenic Adsorption on Goethite and Amorphous Ferric Oxyhydroxide in Water. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	8
84	Synthesis of montmorillonite-chitosan hollow and hierarchical mesoporous spheres with single-template layer-by-layer assembly. *Journal of Materials Science and Technology*, **2019**, 35, 2325-2330	9.1	8
83	Heterotrophic denitrifiers growing on soluble microbial products contribute to nitrous oxide production in anammox biofilm: Model evaluation. *Journal of Environmental Management*, **2019**, 242, 309-314	7.9	8
82	Efficient removal of Hg in aqueous solution with fishbone charcoal as adsorbent. *Environmental Science and Pollution Research*, **2018**, 25, 7709-7718	5.1	8
81	Vanadium Transitions during Roasting-Leaching Process of Vanadium Extraction from Stone Coal. *Minerals (Basel, Switzerland)*, **2018**, 8, 63	2.4	8
80	Effect of droplet size of the emulsified kerosene on the floatation of amorphous graphite. *Journal of Dispersion Science and Technology*, **2017**, 38, 889-894	1.5	8
79	Mechanism of the formation of micropores in the thermal decomposition of goethite to hematite. *Surface and Interface Analysis*, **2015**, 47, 535-539	1.5	8
78	Co-disposal of MSWI fly ash and spent caustic through alkaline-activation: Immobilization of heavy metals and organics. *Cement and Concrete Composites*, **2020**, 114, 103824	8.6	8
77	Role of Montmorillonite, Kaolinite, or Illite in Pyrite Flotation: Differences in Clay Behavior Based on Their Structures. *Langmuir*, **2020**, 36, 10860-10867	4	8
76	Improvement of compressive strength of lime mortar with carboxymethyl cellulose. *Journal of Materials Science*, **2016**, 51, 9279-9286	4.3	8
75	In-situ reduction of gold thiosulfate complex on molybdenum disulfide nanosheets for a highly-efficient recovery of gold from thiosulfate solutions. *Hydrometallurgy*, **2020**, 195, 105369	4	7
74	Swelling Capacity of Montmorillonite in the Presence of Electrolytic Ions. *Journal of Dispersion Science and Technology*, **2016**, 37, 380-385	1.5	7
73	A Case Study on Large-scale Grate-kiln Production of Fluxed Iron Oxide Pellets: Zhanjiang Pelletizing Plant of BaoSteel. *Mineral Processing and Extractive Metallurgy Review*, **2019**, 40, 123-128	3.1	7

72	Stability of Na-montmorillonite suspension in the presence of different cations and valences. *Journal of Dispersion Science and Technology*, **2017**, 38, 1035-1040	1.5	7
71	Efficient removal of As(V) from diluted aqueous solutions by Fe/La oxide magnetic microspheres. *Journal of Cleaner Production*, **2020**, 273, 123134	10.3	7
70	Recyclable Fe3O4@Polydopamine (PDA) nanofluids for highly efficient solar evaporation. *Green Energy and Environment*, **2020**,	5.7	7
69	Synchronous photosensitized degradation of methyl orange and methylene blue in water by visible-light irradiation. *Journal of Molecular Liquids*, **2021**, 334, 116159	6	7
68	Development of superior stable two-dimensional montmorillonite nanosheet based working nanofluids for direct solar energy harvesting and utilization. *Applied Clay Science*, **2021**, 200, 105886	5.2	7
67	Ion modification of transition cobalt oxide by soaking strategy for enhanced water splitting. *Chemical Engineering Journal*, **2021**, 423, 130218	14.7	7
66	Reusing warm-paste waste as catalyst for peroxymonosulfate activation toward antibiotics degradation under high salinity condition: Performance and mechanism study. *Chemical Engineering Journal*, **2021**, 426, 131295	14.7	7
65	Preparation and Characterization of Nanoscale Zero-Valent Iron-Loaded Porous Sepiolite for Decolorizing Methylene Blue in Aqueous Solutions. *Jom*, **2017**, 69, 699-703	2.1	6
64	Morphology of Hydrophobic Agglomerates of Molybdenite Fines in Aqueous Suspensions. *Separation Science and Technology*, **2015**, 50, 1560-1564	2.5	6
63	Removal of Cu(II) from wastewater by using mechanochemically activated carbonate-based tailings through chemical precipitation. *Environmental Science and Pollution Research*, **2019**, 26, 35198-35207	5.1	6
62	Comparison Study on the Effect of Interlayer Hydration and Solvation on Montmorillonite Delamination. *Jom*, **2017**, 69, 254-260	2.1	6
61	Hydrophobic agglomeration kinetics of fine kaolinite particles in aqueous suspensions. *Journal of Dispersion Science and Technology*, **2017**, 38, 1336-1341	1.5	6
60	Transforming Hematite into Magnetite Using Mechanochemical Approach as a Pretreatment of Oolitic Hematite. *Mineral Processing and Extractive Metallurgy Review*, **2017**, 38, 24-29	3.1	6
59	A Novel Model of Aggregate Gradation for Autoclaved Bricks from Tailings. *Minerals (Basel, Switzerland)*, **2017**, 7, 112	2.4	6
58	Solidification of municipal solid waste incineration fly ash and immobilization of heavy metals using waste glass in alkaline activation system. *Chemosphere*, **2021**, 283, 131240	8.4	6
57	Insights into the degradation mechanisms and pathways of cephalexin during homogeneous and heterogeneous photo-Fenton processes. *Chemosphere*, **2021**, 285, 131417	8.4	6
56	Synergetic degradation of Methylene Blue through photocatalysis and Fenton reaction on two-dimensional molybdenite-Fe.. *Journal of Environmental Sciences*, **2022**, 111, 11-23	6.4	6
55	Delamination of Na-montmorillonite particles in aqueous solutions and isopropanol under shear forces. *Journal of Dispersion Science and Technology*, **2017**, 38, 1117-1123	1.5	5

54	Kinetic assessment of simultaneous removal of arsenite, chlorate and nitrate under autotrophic and mixotrophic conditions. *Science of the Total Environment*, **2018**, 628-629, 85-93	10.2	5
53	A case study on large-scale production for iron oxide pellets: Ezhou pelletization plant of the BAOWU. *Mineral Processing and Extractive Metallurgy Review*, **2018**, 39, 211-215	3.1	5
52	Comparison of Adsorption of Phenol O-O and N-O Chelating Collectors at the Malachite/Water Interface in Flotation. *Minerals (Basel, Switzerland)*, **2017**, 7, 20	2.4	5
51	Oxygen-incorporated molybdenum disulfide nanosheets as electrode for enhanced capacitive deionization. *Desalination*, **2020**, 496, 114758	10.3	5
50	First-principles study of X(O, Se, Te)-doped monolayer MoS2 for Hg0 adsorption. *Physica E: Low-Dimensional Systems and Nanostructures*, **2021**, 127, 114504	3	5
49	Floc-Flotation of Malachite Fines with an Octyl Hydroxamate and Kerosene Mixture. *Minerals (Basel, Switzerland)*, **2019**, 9, 301	2.4	4
48	Highly stable MoS2@PDA composite for enhanced reduction of AuCl4□ *Chemical Physics Letters*, **2020**, 747, 137350	2.5	4
47	Roles of hydrocarbon chain-length in preparing graphene oxide from mildly-oxidized graphite with intercalating anionic aliphatic surfactants. *RSC Advances*, **2016**, 6, 14859-14867	3.7	4
46	INFLUENCE OF STICKY RICE AND ANIONIC POLYACRYLAMIDE ON THE CRYSTALLIZATION OF CALCIUM CARBONATE IN CHINESE ORGANIC SANHETU. *Surface Review and Letters*, **2015**, 22, 1550073	1.1	4
45	A novel dry vibrating HGMS separator for purification of potash feldspar ore. *Separation Science and Technology*,1-8	2.5	4
44	NiCoS@Cobalt Carbonate Hydroxide Obtained by Surface Sulfurization for Efficient and Stable Hydrogen Evolution at Large Current Densities. *ACS Applied Materials & Interfaces*, **2021**, 13, 35647-35656	9.5	4
43	The Life Cycle of Water Used in Flotation: a Review. *Mining, Metallurgy and Exploration*, **2019**, 36, 385-397	1.1	4
42	Rich Se nanoparticles modified cobalt carbonate hydroxide as an efficient electrocatalyst for boosted hydrogen evolution in alkaline conditions. *Applied Surface Science*, **2021**, 565, 150505	6.7	4
41	Recent advances in engineering cobalt carbonate hydroxide for enhanced alkaline water splitting. *Journal of Alloys and Compounds*, **2021**, 887, 161405	5.7	4
40	Montmorillonite facilitated Pb(II) biomineralization by Chlorella sorokiniana FK in soil. *Journal of Hazardous Materials*, **2022**, 423, 127007	12.8	4
39	Decomposition characteristics of compound additive and effect of roasting atmosphere on vanadium extraction from stone coal. *Asia-Pacific Journal of Chemical Engineering*, **2017**, 12, 374-380	1.3	3
38	In-situ reduction of Au(S2O3)23□ for efficient recovery of gold with magnetically separable shell-core structured MoS2@Fe3O4 composite. *Hydrometallurgy*, **2020**, 198, 105514	4	3
37	Fabrication of self-supported Ni(OH)2@nickel nanowire coreshell arrays with enhanced electrochemical performance for supercapacitor applications. *Scripta Materialia*, **2020**, 186, 79-83	5.6	3

36	Cr(VI) Removal from Water with Amorphous Graphite Concentrate Contaminated by Iron. *Mineral Processing and Extractive Metallurgy Review*, **2017**, 38, 411-416	3.1	3
35	Cometabolic biodegradation of antibiotics by ammonia oxidizing microorganisms during wastewater treatment processes.. *Journal of Environmental Management*, **2021**, 305, 114336	7.9	3
34	Effect of cristobalite on the mechanical behaviour of metakaolin-based geopolymer in artificial seawater. *Advances in Applied Ceramics*, **2020**, 119, 29-36	2.3	3
33	Laminar MoS2 membrane for high-efficient rejection of methyl orange from aqueous solution. *Chemical Physics*, **2020**, 530, 110609	2.3	3
32	Restraining Na-Montmorillonite Delamination in Water by Adsorption of Sodium Dodecyl Sulfate or Octadecyl Trimethyl Ammonium Chloride on the Edges. *Minerals (Basel, Switzerland)*, **2016**, 6, 87	2.4	3
31	Reexamining the Adsorption of Octyl Hydroxamate on Malachite Surface: Forms of Molecules and Anions. *Mineral Processing and Extractive Metallurgy Review*, **2020**, 41, 178-186	3.1	3
30	Precise Cation Recognition in Two-Dimensional Nanofluidic Channels of Clay Membranes Imparted from Intrinsic Selectivity of Clays.. *ACS Nano*, **2022**,	16.7	3
29	ARSENIC REMOVAL FROM WATER BY ADSORPTION ON IRON-CONTAMINATED CRYPTOCRYSTALLINE GRAPHITE. *Surface Review and Letters*, **2017**, 24, 1750099	1.1	2
28	Selective flotation separation of bastnaesite from dolomite using β-naphthyl sulfonate formaldehyde condensate as depressant: Experimental and calculational studies. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 639, 128380	5.1	2
27	Flexible 2D@3D Janus evaporators for high-performance and continuous solar desalination. *Desalination*, **2022**, 525, 115483	10.3	2
26	Synthetic Fe-rich nontronite as a novel activator of bisulfite for the efficient removal of tetracycline. *Journal of Environmental Management*, **2022**, 302, 114002	7.9	2
25	Assessment of the structure, diversity, and composition of woody species of urban forests of Adama city, Central Ethiopia. *Arboricultural Journal*, **2020**, 1-12	0.6	2
24	Synthesis of three-dimensional reduced graphene oxide aerogels as electrode material for supercapacitor application. *Chemical Physics*, **2021**, 543, 111096	2.3	2
23	Preparation of Carboxymethyl Cellulose-Based Hydrogel Supported by Two-Dimensional Montmorillonite Nanosheets for Methylene Blue Removal. *Journal of Polymers and the Environment* , **2021**, 29, 3918	4.5	2
22	Liberation and Enrichment of Metallic Iron from Reductively Roasted Copper Slag. *Jom*, **2021**, 73, 1013-1022	2.2	2
21	Combined electrosorption and chemisorption of As(III) in aqueous solutions with manganese dioxide as the electrode. *Environmental Technology and Innovation*, **2021**, 24, 101832	7	2
20	Investigation of Solid-State Carbothermal Reduction of Fayalite with and Without Added Metallic Iron. *Jom*, **2021**, 73, 703-711	2.1	2
19	Enhanced adsorption performance of the graphene oxide with metallic ion impurities by elution. *Surface and Interface Analysis*, **2017**, 49, 728-734	1.5	1

18	Synthesis of Fly Ash and Bentonite-Supported Zero-Valent Iron and Its Application for Removal of Toxic Cationic Dyes from Aqueous Solutions. *Environmental Engineering Science*, **2017**, 34, 740-751	2	1
17	ELECTROKINETIC CHARACTERISTICS OF CALCINED KAOLINITE IN AQUEOUS ELECTROLYTIC SOLUTIONS. *Surface Review and Letters*, **2015**, 22, 1550041	1.1	1
16	Recovery of Au(CN)2□by adsorption using reduced graphene oxide/ascorbic acid hydrogel. *Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy*, **2018**, 127, 140-145	0.8	1
15	Enhanced biodegradation of ciprofloxacin by enriched nitrifying sludge: assessment of removal pathways and microbial responses.. *Water Science and Technology*, **2022**, 85, 409-419	2.2	1
14	A novel gasification exfoliation method of the preparation of anhydrous montmorillonite nanosheets for inhibiting restack problem suffering from dehydration. *Applied Clay Science*, **2022**, 217, 106394	5.2	1
13	Effects of Rectifying Bundles on Desliming Ponds. *International Journal of Coal Preparation and Utilization*, **2021**, 41, 30-39	1.2	1
12	Effect of protonation and deprotonation reactions of clay on regulating pyrite flotation in the presence of clay. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 609, 125654	5.1	1
11	Double-layered montmorillonite/MoS2 aerogel with vertical channel for efficient and stable solar interfacial desalination. *Applied Clay Science*, **2022**, 217, 106389	5.2	0
10	SYNTHESIS OF A COMPOSITE AEROGEL OF REDUCED GRAPHENE OXIDE SUPPORTED BY TWO-DIMENSIONAL MONTMORILLONITE NANOLAYERS FOR METHYLENE BLUE REMOVAL. *Clays and Clay Minerals*,1	2.1	0
9	Difference in the preparation of two-dimensional nanosheets of montmorillonite from different regions: Role of the layer charge density. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 617, 126364	5.1	0
8	Efficient Recovery of Gold(I) from Thiosulfate Solutions through Photocatalytic Reduction with Mn(II)-Doped MoS2. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11681-11690	8.3	0
7	MoS2 composite hydrogel supported by two-dimensional montmorillonite nanosheets for Pb2+ removal from water. *Chemical Physics*, **2022**, 556, 111477	2.3	0
6	Physical Disturbance Reduces Cyanobacterial Relative Abundance and Substrate Metabolism Potential of Biological Soil Crusts on a Gold Mine Tailing of Central China.. *Frontiers in Microbiology*, **2022**, 13, 811039	5.7	0
5	Enhanced Production and Recovery of Orthophosphate from Wastewater Containing Phosphonate 1-Hydroxyethane-1,1-diphosphonic Acid through Combined Packed-Bed Ozonation and Adsorption. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 16946-16955	8.3	0
4	Enhanced removal of fluoride from water through precise regulation of active aluminum phase using CaCO.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
3	Self-assembly hierarchical binary gel based on MXene and montmorillonite nanosheets for efficient and stable solar steam generation. *Journal of Cleaner Production*, **2022**, 357, 132000	10.3	0
2	Vertical porous MoS2/hectorite double-layered aerogel as superior salt resistant and highly efficient solar steam generators. *Renewable Energy*, **2022**, 194, 68-79	8.1	0
1	Rupture Force of Magnetite Chain in a Uniform Magnetic Field. *Separation Science and Technology*, **2014**, 49, 2437-2439	2.5	